



July 11, 2018

Revision Section 509
CONCRETE CONSTRUCTION FLATWORK

Section 509 of the City of Colorado Springs Engineering Division Standard Specifications is hereby revised as follows:

Section 509.03 shall be renamed Sidewalks and Curb Ramps

Subsection 509.3. A shall be deleted and replaced with the following:

- A. General: Sidewalks shall be a minimum of four inches (4-inch) in thickness. Sidewalks crossing driveways and alleys shall be a minimum of six inches (6-inch) in thickness in residential driveways and eight inches (8-inch) in thickness at all alley and commercial driveway crossings. Sidewalks crossing alleys and commercial driveways shall be reinforced with No. 4 bar at 18-inches on center each way and be a minimum of four feet (4-feet) in width.

Curb ramps shall be a minimum of six inches (6-inches) in thickness and shall match the width of the connecting sidewalk. In no case, shall the clear width of the curb ramp be less than four feet (4').

Subsection 509.3.C shall be deleted and replaced with the following:

- C. Expansion Joints. Expansion joints shall be ¼ inch to ½ inch approved remolded material. Expansion joints shall be placed where the thickness of concrete changes (e.g. driveways and curb ramps) and against fixed objects (e.g. inlet and poles).

Subsection 509.3.F shall be deleted and replaced with the following:

- F. Tolerance. Sidewalks shall have a minimum cross slope of 1% (1/2 inch vertical per 50 inches horizontal) and a maximum cross slope of 2% (1 inch per 50 inches) sloped toward the roadway. The running slope of the sidewalk shall not exceed the general grade established for the adjacent street.

Curb ramps shall have a minimum cross slope of 1% (1/2 inch vertical per 50 inches horizontal) and a maximum cross slope of 2% (1 inch per 50 inches) sloped toward the direction of flow in the adjacent gutter. Curb ramps shall have a maximum running slope of 8.33% (1 inch vertical per 12 inches horizontal). The counter slope of the gutter or street at the foot of the ramp run shall be 5% maximum. The maximum difference in grades between the curb ramp and the adjacent gutter pan shall 13.3%. The transition between the two surfaces shall be flush.

Where applicable, turning spaces shall be provided with the curb ramps and shall have a minimum cross slope and running slope of 1% (1/2 inch vertical per 50 inches horizontal) and a maximum cross slope and running slope of 2% (1 inch per 50 inches). The counter slope of the gutter or street at the turning space shall be 5% maximum. The maximum difference in grades



between the turning space and the adjacent gutter pan shall 13.3%. The transition between the two surfaces shall be flush.

Forms for sidewalk, curb ramp, and turning space construction are recommended to be set with a cross slope of 1.5% to maintain the minimum and maximum tolerances. Forms for ramp construction are recommended to be set to a running slope of 7.5% so as not to exceed the maximum tolerance.

Detectable warnings shall extend a minimum of two feet (2-feet) in the direction of pedestrian travel and extend the entire width of the curb ramp. Detectable Warnings for pedestrian ramps shall be selected from the City Approved Product list.

Curb ramp(s) within the City right-of way shall be inspected and approved by a city ADA Inspector. Inspections are scheduled by calling 719-385-6828.

Sidewalk, curb ramps, and portions of the curb that are determined to be out of the acceptable tolerances shall be removed and replaced by the Contractor at no additional cost.